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L1         20802 S LYSOPHOSPHATIDYLCHOLINE
L2          1046 S L1 AND ATHEROSCLEROSIS?
L3             0 S L1 AND HYPERTWNSION?
L4            39 S L2 AND HYPERTENSION?
L5          1152 S L1 AND (CARDIOVASCULAR?)
L6           304 S L2 AND L5
L7           921 S L1 AND PHOSPHOCHOLINE?
L8             2 S L6 AND L7
L9             2 DUPLICATE REMOVE L8 (0 DUPLICATES REMOVED)
L10            9 S L5 AND L7
L11            9 DUPLICATE REMOVE L10 (0 DUPLICATES REMOVED)
L12            7 S L11 NOT L9
L13            0 S L7 AND (METABOLIC SYNDROME)
L14            0 S L13 AND HEART?
L15           43 S L7 AND HEART?
L16           25 DUPLICATE REMOVE L15 (18 DUPLICATES REMOVED)
L17           17 S L16 AND PD<1999
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L15           43 S L7 AND HEART?
L16           25 DUPLICATE REMOVE L15 (18 DUPLICATES REMOVED)
L17           17 S L16 AND PD<1999

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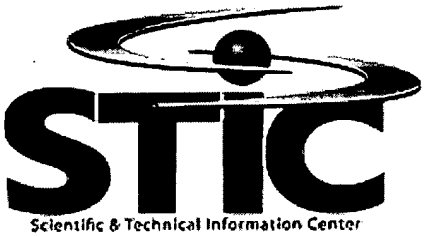
ANSWER 14 OF 17 MEDLINE on STN
AN 89322894 MEDLINE
DN PubMed ID: 2665794
TI Regulation of phosphatidylcholine metabolism in mammalian hearts

AU Hatch G M; O K; Choy P C
CS Department of Biochemistry, Faculty of Medicine, University of Manitoba, Winnipeg, Canada.
SO Biochemistry and cell biology = Biochimie et biologie cellulaire, (1989 Feb-Mar) Vol. 67, No. 2-3, pp. 67-77. Ref: 104
Journal code: 8606068. ISSN: 0829-8211.
CY Canada
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
General Review; (REVIEW)
LA English
FS Priority Journals
EM 198908
ED Entered STN: 9 Mar 1990
Last Updated on STN: 9 Mar 1990
Entered Medline: 31 Aug 1989
AB Phosphatidylcholine is the major phospholipid in the mammalian heart. Over 90% of the cardiac phosphatidylcholine is synthesized via the CDP-choline pathway. The rate-limiting step of this pathway is catalyzed by CTP:phosphocholine cytidylyltransferase. Current evidence suggests that phosphatidylcholine biosynthesis in the heart is regulated by the availability of CTP and the modulation of cytidylyltransferase activity. Phosphatidylcholine is degraded mainly by the actions of phospholipase A1 and A2, with the formation of lysophosphatidylcholine. Lysophosphatidylcholine may be further deacylated by lysophospholipase or reacylated back into the parent phospholipid by the action of acyltransferase. The accumulation of lysophosphatidylcholine in the heart may be one of the biochemical factors for the production of cardiac arrhythmias.
CT Animals
*Heart: PH, physiology
*Mammals: ME, metabolism
Mammals: PH, physiology
*Myocardium: ME, metabolism
*Phosphatidylcholines: ME, metabolism
Phosphatidylcholines: PH, physiology
CN 0 (Phosphatidylcholines)



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Revue canadienne de biochimie et biologie cellulaire
Cover title:Canadian journal of biochemistry and cell biology =

Author: Canadian Biochemical Society.
National Research Council Canada.
Canadian Society for Cell Biology.

Imprint: Ottawa : National Research Council of Canada = Conseil national des recherches du Canada, 1986-

URL: http://search.epnet.com/direct.asp?jid=35G&db=aph Click here for Online version via Academic Search Premier (ASP). Feb 2001-
http://proquest.umi.com/pqdweb?RQT=318&VName=PQD&clientid=19649&pmid=36120 Click here for Online version via Proquest. Jan 1, 1998-Present.

Notes: Available on ADONIS, v. 73, no. 1-2 (1995) - v. 80, no. 4 (2002)
Includes bibliographies.
Articles in English; summaries in English and French.
Official journal of the Canadian Biochemical Society and the Canadian Society for Cell Biology.

ISSN: 0829-8211

Subjects: Biological chemistry -- Periodicals.
Cytology -- Periodicals.

Description: v. : ill. ; 26 cm.

Continues: Canadian journal of biochemistry and cell biology

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ANSWER 1 OF 1 MEDLINE on STN

AN 92197126 MEDLINE

DN PubMed ID: 1801455

TI [Phospholipid thrombocyte activating factor, its analogs and antagonists: prospects of their use in medicine].
Fosfolipidnyi faktor aktivatsii trombotsitov, ego analogi i antagonisty: perspektivy primeneniia v meditsine.

AU Kulikov V I; Muzia G I

SO Vestnik Akademii meditsinskikh nauk SSSR, (1991) No. 10, pp. 13-7. Ref: 37
Journal code: 7506153. ISSN: 0002-3027.

CY USSR

DT (ENGLISH ABSTRACT)
(IN VITRO)
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)

LA Russian

FS Priority Journals

EM 199204

ED Entered STN: 9 May 1992
Last Updated on STN: 9 May 1992
Entered Medline: 21 Apr 1992

AB Experimental data on the biological activity of phospholipid platelet-activation factor (PAF), its structural analogs and antagonists are discussed. The prospects of the use of PAF and PAF antagonists in medicine are under consideration. The conclusion is drawn that PAF antagonists may serve the basis for the development of highly potent drugs of new generation.

CT Azepines: DU, diagnostic use
Azepines: PD, pharmacology
*Azepines: TU, therapeutic use
*Diterpenes
Fibrinolytic Agents: PD, pharmacology
*Fibrinolytic Agents: TU, therapeutic use
Ginkgolides
Humans
Lactones: DU, diagnostic use
Lactones: PD, pharmacology
*Lactones: TU, therapeutic use
*Lysophosphatidylcholines: PD, pharmacology
*Platelet Activating Factor: AA, analogs & derivatives
Platelet Activating Factor: AI, antagonists & inhibitors
*Platelet Activating Factor: PH, physiology
Platelet Activation: DE, drug effects
*Platelet Activation: PH, physiology
Platelet Aggregation: DE, drug effects
*Platelet Aggregation: PH, physiology
Platelet Function Tests
Thrombosis: BL, blood
Thrombosis: DT, drug therapy
*Thrombosis: ET, etiology
Triazoles: DU, diagnostic use
Triazoles: PD, pharmacology
*Triazoles: TU, therapeutic use

RN 105219-56-5 (WEB 2086); 99796-69-7 (ginkgolide B)

CN 0 (1-acylglycerylphosphorylcholine); 0 (1-alkyl-2-acyl-sn-glycero-3-phosphocholine); 0 (Azepines); 0 (Diterpenes); 0 (Fibrinolytic Agents); 0 (Ginkgolides); 0 (Lactones); 0 (Lysophosphatidylcholines** *); 0 (Platelet Activating Factor); 0 (Triazoles)

=>

ANSWER 2 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AN 1990:514666 BIOSIS
DN PREV199090131942; BA90:131942
TI HYDROLYSIS OF 2 ACYL-SN-GLYCERO-3-PHOSPHOCHOLINES IN GUINEA-PIG HEART MITOCHONDRIA.
AU BADIANI K [Reprint author]; PAGE L; ARTHUR G
CS DEP BIOCHEM MOL BIOL, FAC MED, UNIV MANITOBA, 770 BANNATYNE AVE, MANIT, CANADA R3E 0W3
SO Biochemistry and Cell Biology, (1990) Vol. 68, No. 9, pp. 1090-1095.
CODEN: BCBIEQ. ISSN: 0829-8211.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 19 Nov 1990
Last Updated on STN: 19 Nov 1990
AB Although both 2-acyl-sn-glycero-3-phosphocholine and 1-acyl-sn-glycero-3-phosphocholine may be produced from phosphatidylcholine hydrolysis, studies on the former have lagged behind that of the latter. In this study a lysophospholipase A2 that hydrolyses 2-acyl-sn-glycero-3-phosphocholine has been characterized in guinea pig heart mitochondria. The lysophospholipase A2 activity was not dependent on Ca2+ and was inhibited differentially by saturated and unsaturated fatty acids. This lysophospholipase A2 activity was able to discriminate among different molecular species of 2-acyl-sn-glycero-3-phosphocholines when they were presented individually or in pairs. The order of decreasing rates of hydrolysis of different molecular species of 2-lysophosphatidylcholines, when the substrates were presented singly, was 18:2 > 20:4 > 18:1 > 16:0. A differential inhibition of the rate of hydrolysis of the individual substrates was observed when the substrates were presented in pairs. The degree of inhibition was dependent on the molar ratio of the mixed substrates. The characteristics of the enzyme suggest that involvement in the selective release of fatty acids from mitochondrial phosphatidylcholine would depend on a high selectivity of phospholipase A1 for different molecular species of phosphatidylcholine. A lysophospholipase A1 activity was also characterized in the mitochondria with a distinct acyl specificity from the lysophospholipase A2. Other characteristics of the two lysophospholipases suggest that the two reactions are not catalyzed by the same enzyme.
CC Biochemistry studies - Proteins, peptides and amino acids 10064
Biochemistry studies - Lipids 10066
Enzymes - Physiological studies 10808
Anatomy and Histology - Microscopic and ultramicroscopic anatomy 11108
Metabolism - Lipids 13006
Cardiovascular system - Physiology and biochemistry 14504
IT Major Concepts
Cardiovascular System (Transport and Circulation); Enzymology (Biochemistry and Molecular Biophysics); Metabolism; Morphology
IT Miscellaneous Descriptors
FATTY ACID RELEASE
ORGN Classifier
Caviidae 86300
Super Taxa
Rodentia; Mammalia; Vertebrata; Chordata; Animalia
Taxa Notes
Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals, Rodents, Vertebrates

ANSWER 2 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
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Metabolism - Lipids 13006
Cardiovascular system - Physiology and biochemistry 14504
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IT Miscellaneous Descriptors
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ORGN Classifier
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Author:	Canadian Biochemical Society. National Research Council Canada. Canadian Society for Cell Biology.
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